

Oracle® Exadata Database Machine Licensing Information User's Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

ORACLE®

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Preface

This document, which is part of the Program Documentation under the terms of your Oracle licensing agreement, is intended to help you understand the features, functionality, and options available for Oracle Programs.

If you have a question about your licensing needs, contact your Oracle sales representative, contact the License Management Services representative at <http://www.oracle.com/us/corporate/license-management-services/index.html>, or refer to the resources listed in “Related Documents” for more information.

- [Audience](#)
- [Documentation Accessibility](#)
- [Related Documents](#)
- [Conventions](#)

Audience

This book is intended for all purchasers of Oracle Exadata Database Machine.

Documentation Accessibility

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Related Documents

For more information, see the following Oracle resources:

- *Oracle Exadata System Software User's Guide*
- *Oracle Exadata Database Machine System Overview*
- *Oracle Exadata Database Machine Installation and Configuration Guide*
- *Oracle Exadata Database Machine Maintenance Guide*
- *Oracle Exadata Database Machine Extending and Multi-Rack Cabling Guide*

- The Software Investment Guide, available at:
<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html>

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Licensing Information

The Oracle Exadata System Software license includes the use of Exadata Hybrid Columnar Compression along with other features documented in *Oracle Exadata System Software User's Guide*.

Oracle Advanced Compression Option must be licensed to enable flash cache compression. Refer to *Oracle Database Licensing Information User Manual* for additional information.

Oracle Database is licensed separately. Refer to *Oracle Database Licensing Information User Manual* for additional information.

Related Topics

- *Oracle Exadata System Software User's Guide*
- *Oracle Database Licensing Information User Manual*

2

Capacity-On-Demand Information

You can reduce the number of active cores on your Exadata database servers to lower the initial software licensing cost, but this does not change the hardware cost.

Capacity-on-demand (CoD) refers to an Exadata database server that is installed with a subset of its cores turned off so that the database software license cost can be reduced. The reduction is implemented during software installation using Oracle Exadata Deployment Assistant (OEDA). The number of active cores can be increased at a later time, when more capacity is needed. CoD does not apply to Oracle Exadata storage server cores.

Capacity-on-demand may only be used to decrease the number of active cores during initial installation. After initial installation, the active core count may be increased, but not decreased. It is your responsibility to acquire the additional software licenses. For steps on how to increase the number of active cores, refer to *Oracle Exadata Database Machine Maintenance Guide*.

The one exception to this is when you are adding database servers to an Exadata configuration, and you are redistributing the active cores in order to maintain a balanced cluster configuration. In that case the total number of active cores across all database servers cannot decrease and the end state must comply with the capacity-on-demand restrictions. For example, if you have a X5-2 Quarter Rack with all cores active on both database servers (a total of 72 active cores) and you add a third database server with 18 active cores (a total of 90 cores), you can distribute the 90 active cores across all three database servers (30 active cores on each database server). That entails reducing the active cores on the two previous database servers from 36 to 30, and installing the new database server with 30 active cores. For database servers in a cluster, it is recommended that they each have the same or very similar compute capacity.

Tip:

When you run Oracle Exadata Deployment Assistant (OEDA) to perform initial configuration of your Exadata system, you have to specify whether or not you are using capacity-on-demand, and, if you are, the number of cores that you want to activate on your system. Because it is not possible to decrease the number of active cores after installation, other than the exception case mentioned above, it is recommended that you review the licensing plan to make sure you specify in OEDA the correct number of active cores you intend to license.

- [Restrictions for Capacity-On-Demand on Oracle Exadata Database Machine](#)
Capacity-on-demand is available for Exadata Database Machine, starting with X4-2 systems.
- [Monitoring Tool Requirement](#)
To use the capacity-on-demand feature, the Exadata system must be running an approved monitoring tool so that the number of active cores can be validated.

- [Oracle Trusted Partitions for Oracle Exadata](#)

2.1 Restrictions for Capacity-On-Demand on Oracle Exadata Database Machine

Capacity-on-demand is available for Exadata Database Machine, starting with X4-2 systems.

Note the following restrictions regarding capacity-on-demand:

- For X5-2, X6-2, X7-2, and X8-2 systems, the minimum number of cores that must be enabled is 14 per database server. Note that for Eighth Rack configurations the minimum is 8 cores per database server.
- For X4-2 systems, the minimum number of cores that must be enabled is 12 per database server. The X4-2 Eighth Rack configuration cannot use capacity-on-demand.
- For X5-8, X6-8, X7-8, and X8-8 systems, the minimum number of cores that must be enabled is 56 per database server.
- For X4-8 systems, the minimum number of cores that must be enabled is 48 per database server.
- Additional cores are increased in 2-core increments per database server on X4-2 and later two-socket systems, and in 8-core increments on X4-8 and later eight-socket systems.
- Within the same Exadata system, each database server can be licensed to a different number of cores, but each server in the same cluster should have the same number of active cores to accommodate a cluster fail over without significant performance impact.

See Also:

Oracle Exadata Database Machine Maintenance Guide for more information about capacity-on-demand core processor configurations.

2.2 Monitoring Tool Requirement

To use the capacity-on-demand feature, the Exadata system must be running an approved monitoring tool so that the number of active cores can be validated.

The monitoring tool must be installed within three months of installation. To meet this requirement, you can do any of the following:

- Purchase the Oracle technical support services necessary to enable eligibility for Oracle Platinum Services, and then continuously maintain those services.
- Install, and then continuously utilize Oracle Configuration Manager in connected mode.
- Install, and then continuously utilize Oracle Enterprise Manager in either connected or disconnected mode.

For running Oracle Enterprise Manager in disconnected mode, the base installation collects appropriate information from the server system, including the number of active cores. No add-on packs need to be purchased. The rules for using Oracle Enterprise Manager are the same as those that apply to Oracle Trusted Partitions. This is the only method that allows for disconnected mode.

Related Topics

- [Oracle Platinum Services web page](#)
- [Oracle Platinum Services Policies](#)
- [Oracle Configuration Manager data sheet](#)
- [Oracle Configuration Manager Installation and Administration Guide](#)
- [Oracle Configuration Manager Quick Start Guide \(My Oracle Support Doc ID 728988.5\)](#)
- [Oracle Hardware and Systems Support policies](#)
- [Oracle Exadata Technical Support policies](#)
- [Oracle Trusted Partitions for Oracle Exadata](#)

2.3 Oracle Trusted Partitions for Oracle Exadata

Exadata permits the use of Trusted Partitioning, where the use of Oracle VM Server to limit the number of Oracle Processor licenses required, is allowed. That means any Oracle software running in a VM only needs to be licensed for the number of cores assigned to that VM, subject to a minimum core requirement equal to Capacity on Demand. For example, consider an X6-2 Quarter Rack database server that runs two databases, each in an 8-core VM, for a total of 16 licensed cores (the minimum is 14). Both databases also run options for Oracle Real Application Clusters (Oracle RAC) and Oracle Partitioning. The second database also runs the Oracle Advanced Security option. For the second database server, the required licensing must include 16 cores (8 processor licenses) of Oracle Database Enterprise Edition, Oracle RAC and Oracle Partitioning, and 8 cores (4 processor licenses) of Oracle Advanced Security option.

Oracle's Trusted Partitioning policy requires use of Oracle Enterprise Manager.

For purposes of licensing Oracle programs in a Trusted Partition, note the following:

- Two virtual CPUs (vCPUs) are counted as equivalent to a physical core.
- With the core factor of 0.5, one Oracle program processor license allows you to use 2 physical cores.

To use Trusted Partition on Oracle Exadata systems, they must be running Oracle Exadata System Software 12.1.2.1.0 or later.

The following table shows the licensing requirements and examples for Oracle Trusted Partitions for Oracle Exadata systems.

Oracle Exadata System	Oracle Trusted Partition Licensing Requirements
X6 and later	<p>Minimum number of cores that must be licensed for an Eighth Rack system: 8 physical cores per compute node</p> <p>Minimum number of cores that must be licensed for all other configurations: 14 physical cores per compute node</p> <p>Example:</p> <p>Oracle Exadata Database Machine X6-2 Quarter Rack has 2 compute nodes, each with two 22 core processors, for a total of 44 licensable physical cores per compute node.</p> <p>At least 7 Oracle software processor licenses (equivalent to 14 physical cores based on the current core factor of 0.5) per compute node must be licensed. Since the quarter rack has 2 compute nodes, this means at least 14 Oracle software processor licenses must be licensed.</p> <p>28 cores allow the customer to run 56 virtual CPUs (vCPUs).</p>
X2 to X5	<p>Minimum number of cores that must be licensed: 40% of the physical cores</p> <p>Example:</p> <p>Oracle Exadata Database Machine X5-2 Quarter Rack has 4 processors with 18 cores each, for a total of 72 licensable physical cores.</p> <p>At least 14 Oracle software processor licenses (equivalent to 28 physical cores based on the current core factor of 0.5) must be licensed.</p> <p>28 cores allow the customer to run 56 vCPUs.</p>

Related Topics

- [Configuring Oracle Enterprise Manager 12c Harvester trusted Partitions \(My Oracle Support Doc ID 1471719.1\)](#)
- [Restrictions for Capacity-On-Demand on Oracle Exadata Database Machine](#)
Capacity-on-demand is available for Exadata Database Machine, starting with X4-2 systems.
- [Oracle Partitioning Policy](#)

3

Third-Party Product Licenses

This chapter contains the licenses for the third-party products that are included with Oracle Exadata Database Machine.

- [Third-Party Product Licenses for Oracle Exadata System Software](#)
This section contains the licenses for the third-party products included with Oracle Exadata System Software.
- [Third-Party Product Licenses for Oracle Database](#)
- [Third-Party Product Licenses for Oracle Exadata Database Machine and Storage Expansion Rack Hardware](#)
- [Third-Party Product Licenses for Java](#)

3.1 Third-Party Product Licenses for Oracle Exadata System Software

This section contains the licenses for the third-party products included with Oracle Exadata System Software.

- [The Apache Software License, Version 1.1](#)
- [Bsafe \(Bsafe Crypto-C.\)](#)
- [Byacc, v. 1.8 and earlier](#)
- [Byte Code Engineering Library \(BCEL\) v. 5](#)
- [Cryptix](#)
- [Document Object Model \(DOM\) v. Level 3](#)
- [Expat, v 2.2.0](#)
- [InfoZip, v. 5.51](#)
- [IPMItool, v1.8.15](#)
- [JavaScript Extension Toolkit \(JET\) v. 5.0.0 and 5.2.0](#)
- [JavaScript Extension Toolkit \(JET\) v. 3.0.0, 3.1.0](#)
- [JavaScript Extension Toolkit \(JET\) v. 2.0.2, 2.1.0, 2.2.0](#)
- [JSch, v. 0.1.54](#)
- [JSch, v. 0.1.50 and v. 0.1.44](#)
- [JLex: A Lexical Analyzer Generator for Java v. 1.2.5](#)
- [JLine, v. 2.13](#)
- [jQuery, v. 3.1.0, 3.1.1](#)
- [jQuery, v. 2.1.3](#)
- [jQuery UI, v. 1.12.0, 1.12.1](#)

- jQuery UI, v. 1.11.4
- Mesa 3-D graphics library v. 5
- Micro Edition Suite (MES)
- MiGLayout, v. 3.7.1 and v. 5.2
- Oracle Linux
- Regexp, Regular Expression Package v. 1.2
- SAX v. 2.0.1
- Selenium, v. 3.14
- Selenium, v. 3.4.0
- SNMP4J v.2.6.2
- snmp4j-agent, v. 2.5.8 and Prior Releases
- W3C XML Schema Test Collection v. 1.16.2

3.1.1 The Apache Software License, Version 1.1

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3.1.2 Bsafe (Bsafe Crypto-C.)

Vendor: RSA

Version: 6.3.2.2

3.1.3 Byacc, v. 1.8 and earlier

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3.1.4 Byte Code Engineering Library (BCEL) v. 5

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3.1.6 Document Object Model (DOM) v. Level 3

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3.1.7 Expat, v 2.2.0

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3.1.8 InfoZip, v. 5.51

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=== Knockout.js 3.4.0 ===

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=== Knockout Mapping plugin v2.4.1 ===

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=== knockout-amd-helpers 0.7.3 ===

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=== Normalize.css ===

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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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/*! Hammer.JS - v2.0.4 - 2014-09-28

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3.1.12 JavaScript Extension Toolkit (JET) v. 2.0.2, 2.1.0, 2.2.0

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=== Knockout.js 3.4.0 ===

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=== Knockout Mapping plugin v2.4.1 ===

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=== knockout-amd-helpers 0.7.3 ===

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=== Normalize.css ===

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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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=== Select2.js ===

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=== ES6-Promise v1.0.0 ===

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=== jQuery UI - v1.11.4 ===

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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/*! Hammer.JS - v2.0.4 - 2014-09-28

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3.1.13 JSch, v. 0.1.54

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3.1.14 JSch, v. 0.1.50 and v. 0.1.44

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3.1.17 jQuery, v. 3.1.0, 3.1.1

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3.1.19 jQuery UI, v. 1.12.0, 1.12.1

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3.1.21 Mesa 3-D graphics library v. 5

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GLX driver include/GL/glx.h Brian Paul Mesa

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3.1.23 MiGLayout, v. 3.7.1 and v. 5.2

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3.1.25 Regexp, Regular Expression Package v. 1.2

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3.1.27 Selenium, v. 3.14

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3.1.29 SNMP4J v.2.6.2

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3.1.31 W3C XML Schema Test Collection v. 1.16.2

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3.3 Third-Party Product Licenses for Oracle Exadata Database Machine and Storage Expansion Rack Hardware

This section contains the licenses for the third-party products included with Oracle Exadata Database Machine and Storage Expansion Rack hardware.

- [Third-Party Product Licenses for Exadata Database Server Hardware](#)
- [Third-Party Product Licenses for Exadata Storage Server Hardware](#)
- [Third-Party Product Licenses for Sun Datacenter InfiniBand Switch 36 Software](#)
- [Third-Party Product Licenses for Oracle Flash Accelerator Cards](#)

3.3.1 Third-Party Product Licenses for Exadata Database Server Hardware

To view the X8-8 database server third-party product licenses, refer to [Licensing Information User Manual Oracle Server X8-8](#).

To view the X8-2 database server third-party product licenses, refer to [Licensing Information User Manual for Oracle Server X8-2](#).

To view the X7-8 database server third-party product licenses, refer to [Licensing Information User Manual Oracle Server X7-8](#).

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To view the X6-2 database server third-party product licenses, refer to [Licensing Information User Manual Oracle Server X6-2](#).

To view the X5-8 database server third-party product licenses, refer to [Licensing Information User Manual Oracle Server X5-8](#).

To view the X5-2 database server third-party product licenses, refer to [Licensing Information User Manual Oracle Server X5-2](#).

To view the X4-8 database server third-party product licenses, refer to [Licensing Information User Manual Sun Server X4-8](#).

To view the X4-2 database server third-party product licenses, refer to [Sun Server X4-2 Program Documentation Third Party Licenses and Notices](#).

To view the Sun Server X3-2 (X4170 M3) third-party product licenses, refer to [Sun Server X3-2 Program Documentation Third Party Licenses and Notices](#).

To view the Sun Server X2-8 (X4800 M2) third-party product licenses, refer to [Sun Server X2-8 Program Documentation Third Party Licenses and Notices](#).

To view the X4800 database server third-party product licenses, refer to [Sun Fire X4800 Server Program Documentation Third Party Licenses and Notices](#).

To view the X4170 M2 database server third-party product licenses, refer to [Sun Fire X4170 M2/X4270 M2 Server Program Documentation Third Party Licenses and Notices](#).

3.3.2 Third-Party Product Licenses for Exadata Storage Server Hardware

To view the X8-2L storage server third-party product licenses, refer to [Licensing Information User Manual for Oracle Server X8-2L](#).

To view the X7-2L storage server third-party product licenses, refer to [Licensing Information User Manual for Oracle Server X7-2L](#).

To view the X6-2L storage server third-party product licenses, refer to [Licensing Information User Manual Oracle Server X6-2L](#).

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To view the X4-2L storage third-party product licenses, refer to [Sun Server X4-2L Program Documentation Third Party Licenses and Notices](#).

To view the Sun Server X3-2L (X4270 M3) third-party product licenses, refer to [Sun Server X3-2L Program Documentation Third Party Licenses and Notices](#).

To view the X4270 M2 server third-party product licenses, refer to [Sun Fire X4170 M2/X4270 M2 Server Program Documentation Third Party Licenses and Notices](#).

3.3.3 Third-Party Product Licenses for Sun Datacenter InfiniBand Switch 36 Software

To view the Sun Datacenter InfiniBand Switch 36 software third-party licenses, refer to [Licensing Information User Manual Sun Datacenter InfiniBand Switch 36 Firmware Version 2.2](#).

3.3.4 Third-Party Product Licenses for Oracle Flash Accelerator Cards

Refer to the appropriate documentation for the hardware you are using.

- Sun Flash Accelerator F40 PCIe Card: View the third-party product licenses in [Sun Flash Accelerator F40 PCIe Card Program Documentation Third Party Licenses and Notices](#).
- Sun Flash Accelerator F80 PCIe Card: View the third-party product licenses in [Sun Flash Accelerator F80 PCIe Card Program Documentation Third Party Licenses and Notices](#).

3.4 Third-Party Product Licenses for Java

For the licenses for the third-party products included with JDK and JRE refer to [Licensing Information User Manual - Oracle Java SE and Oracle Java Embedded Products](#).

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